

	<b>Q bio</b> <b>m3 / Tag</b>	<b>Q min</b> <b>l / s</b>	<b>Q max</b> <b>l / s</b>
<b>Mittelwert</b>	12'449		
<b>20%-Wert</b>	8'160	60	233
<b>50%-Wert</b>	9'812	72	246
<b>80%-Wert</b>	17'228	146	446
<b>Q tw</b> 1)	8'986	66	240
<b>2 Q tw</b>			479

1) Mittel aus 20% und 50%-Wert

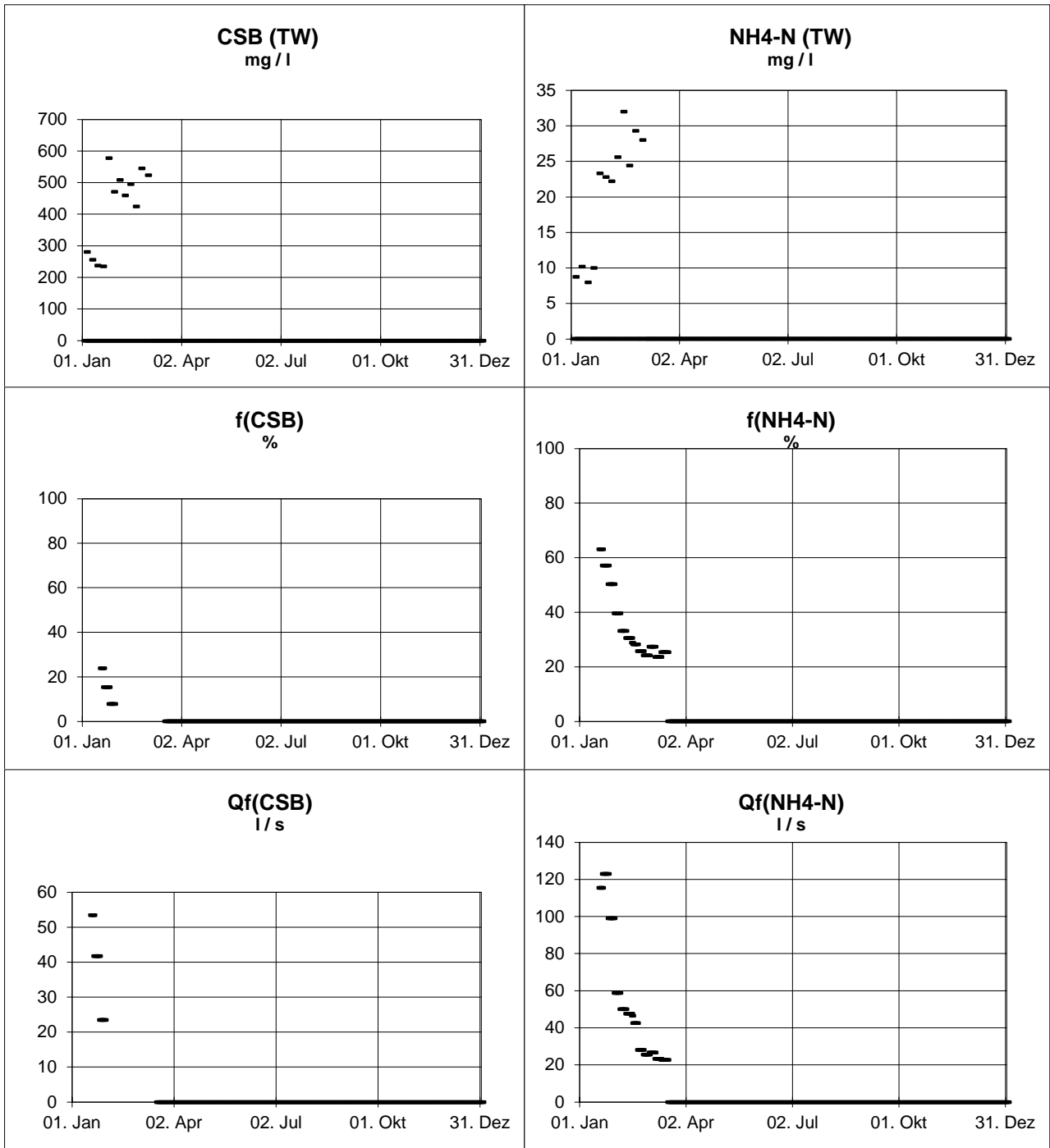
**Fremdwasseranteil 12 %**

siehe Seite 2

	<b>Tagesmittelwerte</b>	
	<b>m3 / d</b>	<b>l / s</b>
<b>Q tw</b>	8'986	104
<b>Q fremd</b> 2)	1'112	13
<b>Q schmutz</b> 3)	7'874	91

2) = Q tw \* Fremdwasseranteil / 100

3) = Q tw - Q fremd



**Vorgaben:**

<b>Q schmutz</b>	200 l/EW*Tag
<b>CSB</b>	90 g/EW*Tag
<b>NH4-N</b>	7.5 g/EW*Tag
<b>K soll (CSB)</b>	450 mg / l
<b>K soll (NH4-N)</b>	37.5 mg / l

**K soll:** erwartete Konzentration im Zulauf, wenn nur Schmutzwasser zuläuft!

**Schätzung aus EW biochemisch**

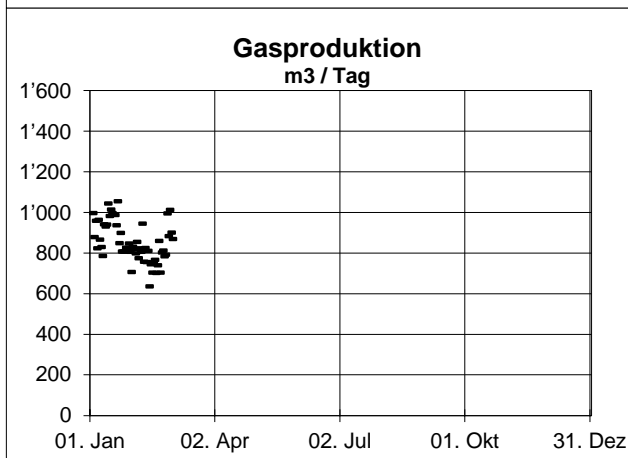
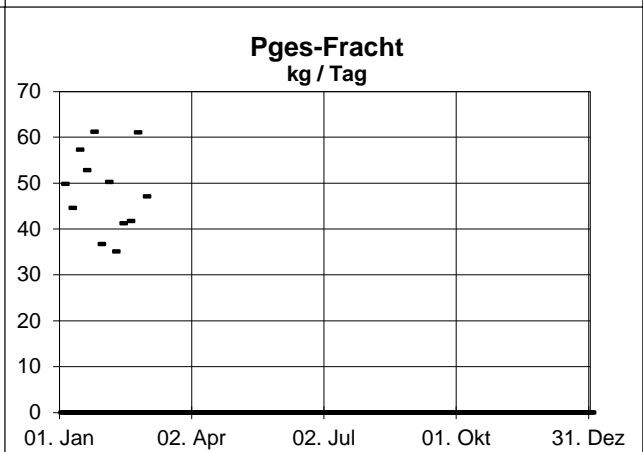
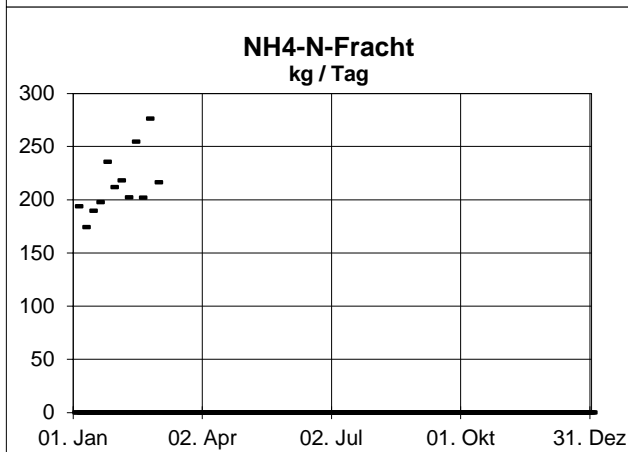
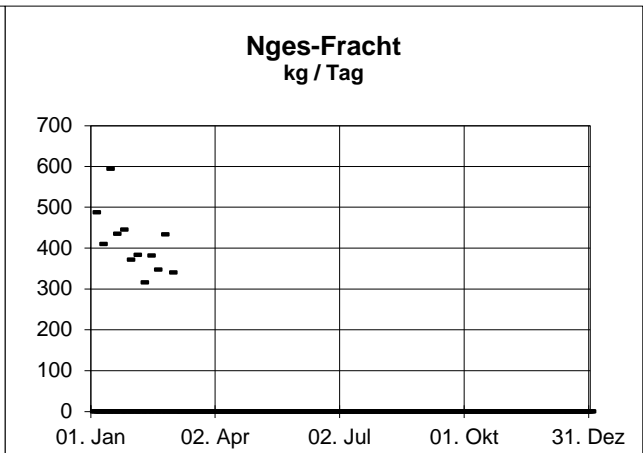
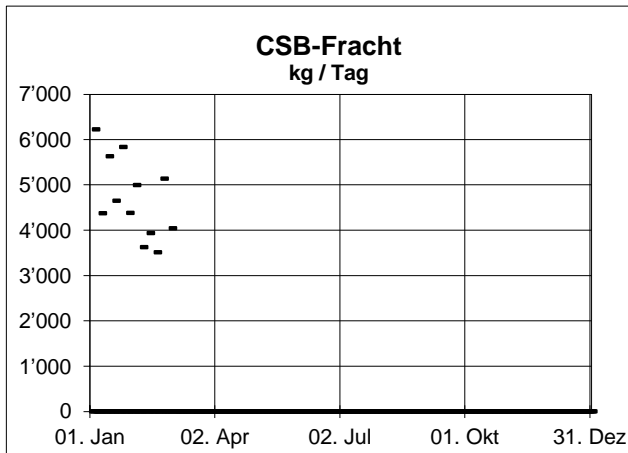
<b>Q tw</b>	8'986 m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	10'400 m3 / Tag
<b>Q fremd (EW)</b>	-1'414 m3 / Tag
<b>f (EW)</b>	-16 %

<sup>1)</sup> 200 l / EW \* Tag

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	7 %
<b>f(NH4-N) Jahresmittel</b>	46 %

<b>f Mittelwert</b>	12 %
<b>f gewählt</b>	12 %

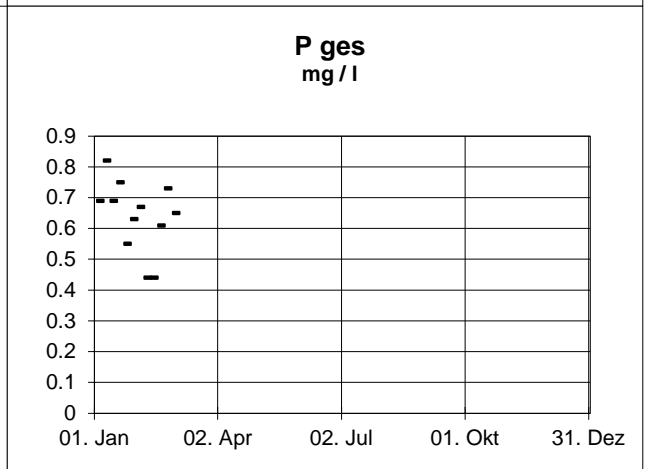
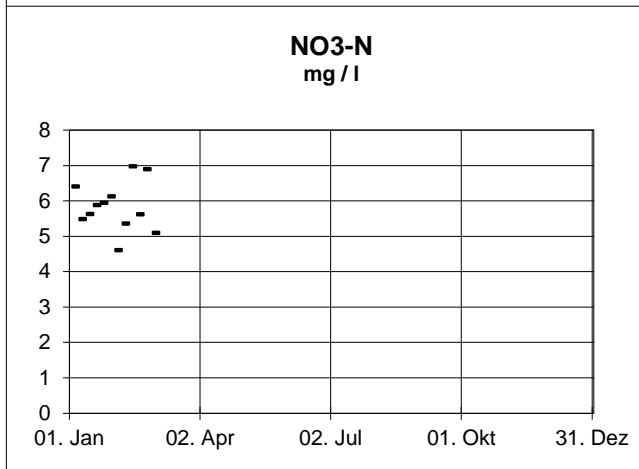
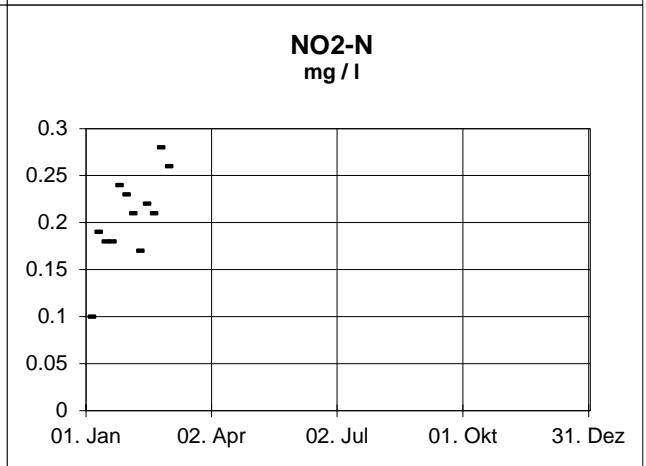
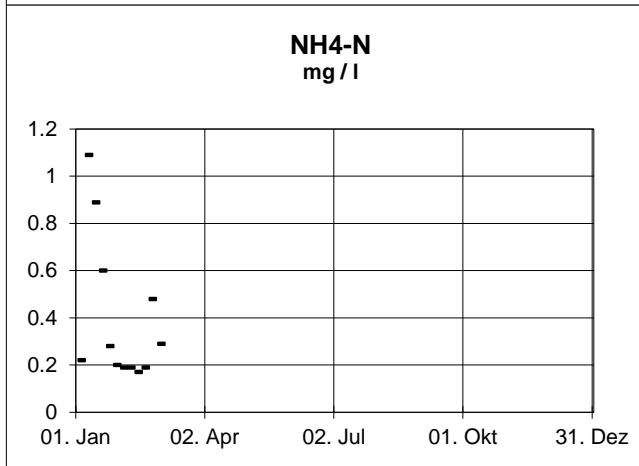
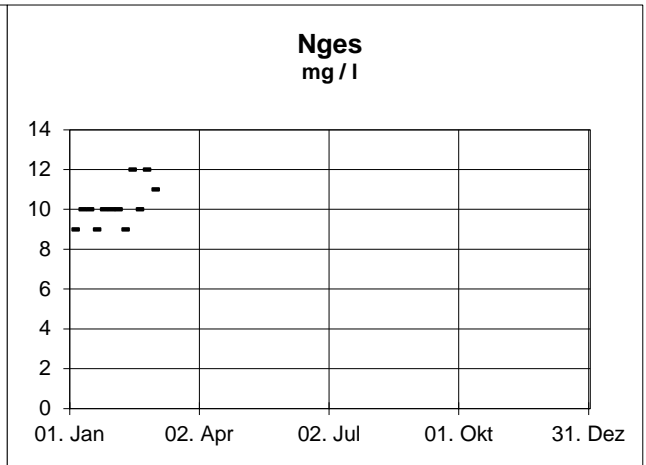
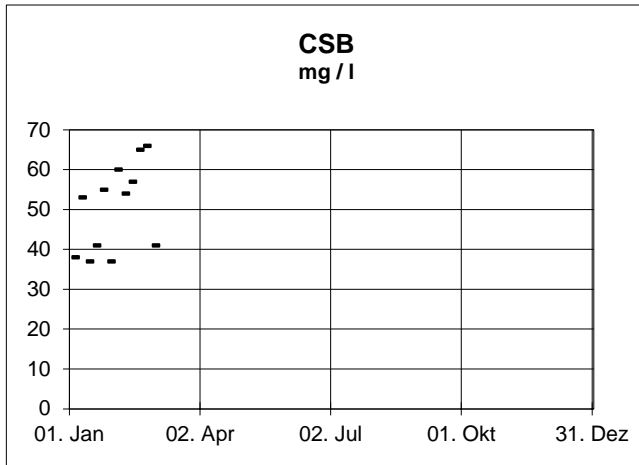


<b>EZ angeschlossen</b>	<b>21'000</b>
<b>EW biochem. gewählt</b>	<b>52'000</b>
<b>EW biochem. 80%-Wert</b>	<b>61'000</b>
<b>EW Stickstoff</b>	<b>29'000</b>
<b>EW Phosphor</b>	<b>30'000</b>

<b>Zulauffrachten</b>	<b>BSB5 kg/Tag</b>	<b>CSB kg/Tag</b>	<b>NH4-N kg/Tag</b>	<b>Pges kg/Tag</b>	<b>Gasp. m3/Tag</b>	<b>FS kg/Tag</b>
<b>Mittelwert</b>		4'696	214	48	853	2'386
<b>50%-Wert</b>		4'514	207	48	827	
<b>80%-Wert</b>		5'534	232	56	950	

<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>Probenahmeort: ab VKB</b>	<b>l / Tag</b>	<b>g / Tag</b>
	<b>45</b>	<b>90</b>	<b>7.5</b>	<b>1.6</b>		<b>30</b>	<b>85</b>

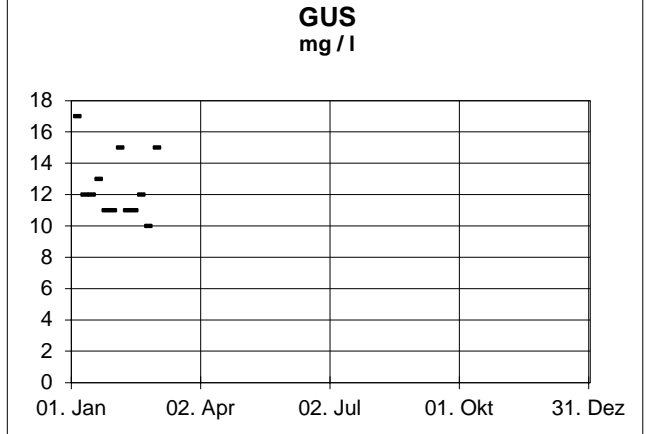
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>		52'176	28'591	30'160	36'976	28'440	28'065
<b>50%-Wert</b>		50'156	27'615	30'303	36'025	27'567	
<b>80%-Wert</b>		61'484	30'961	35'237	42'560	31'653	

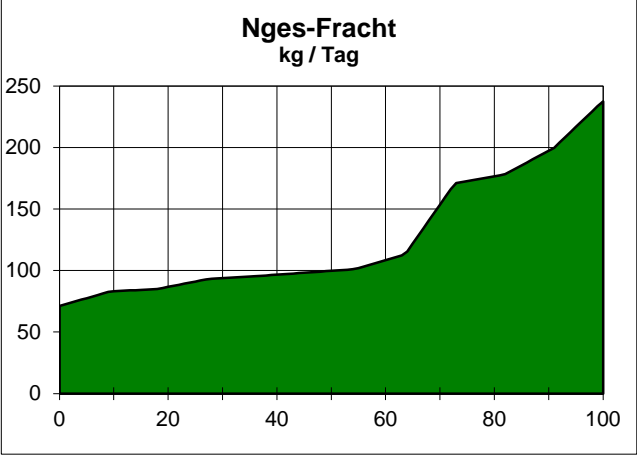
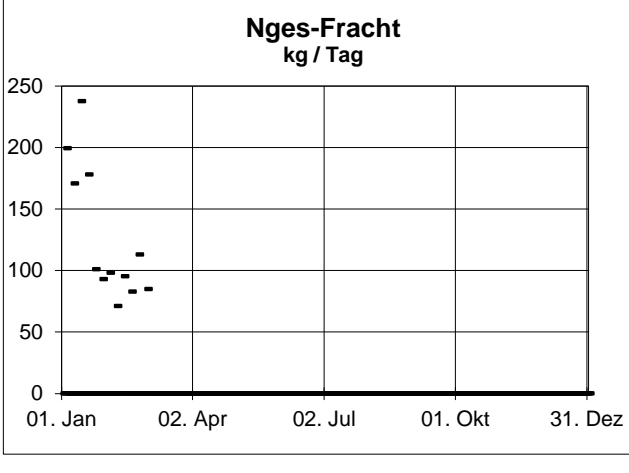
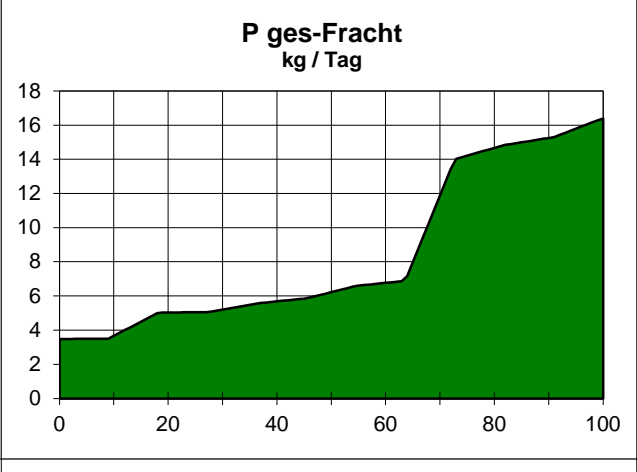
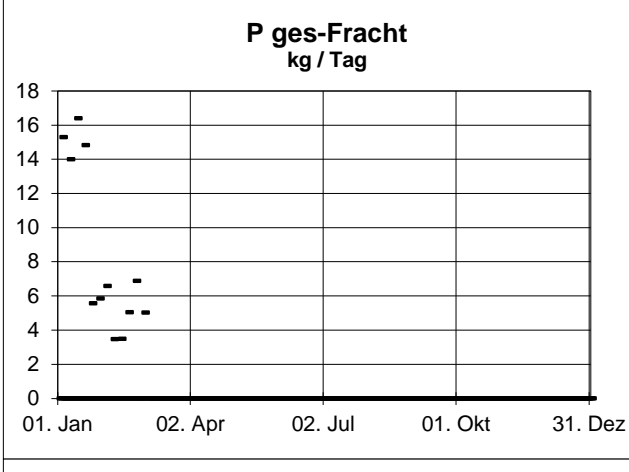
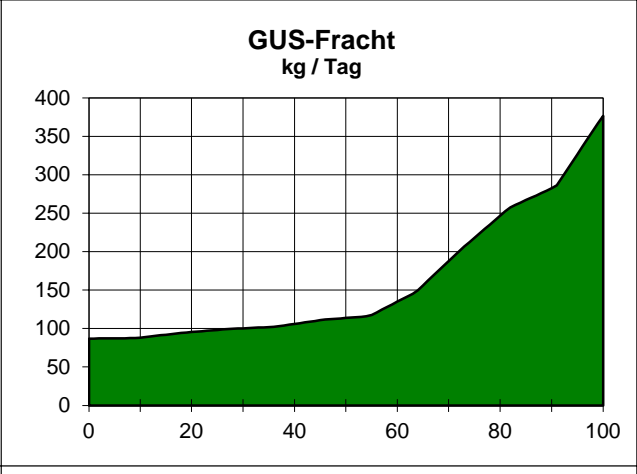
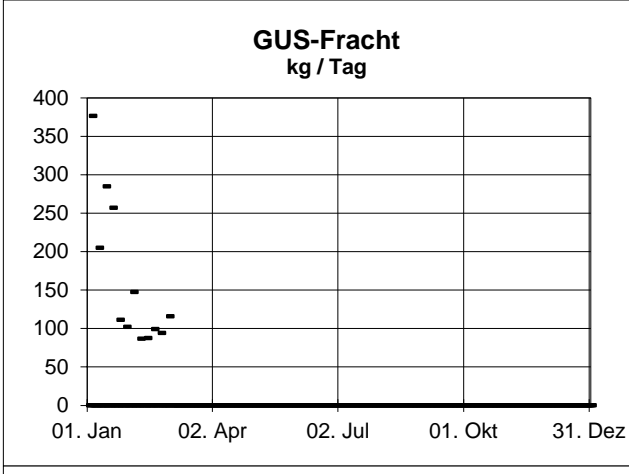
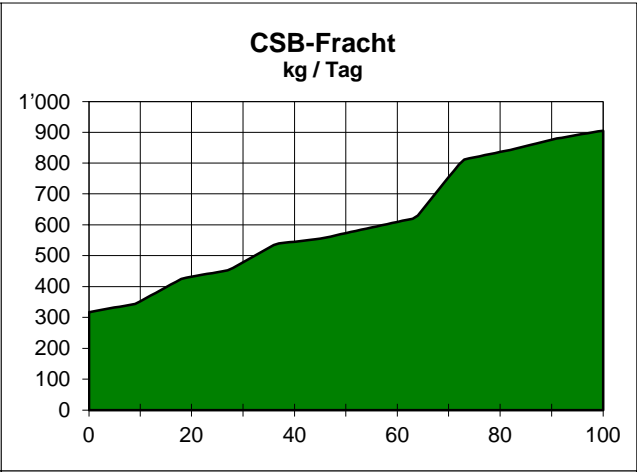
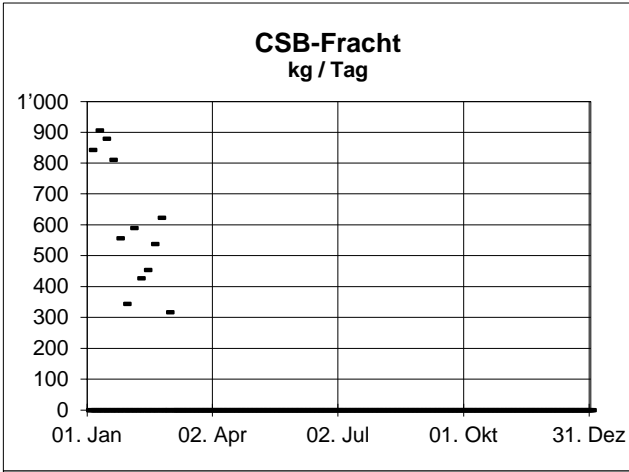


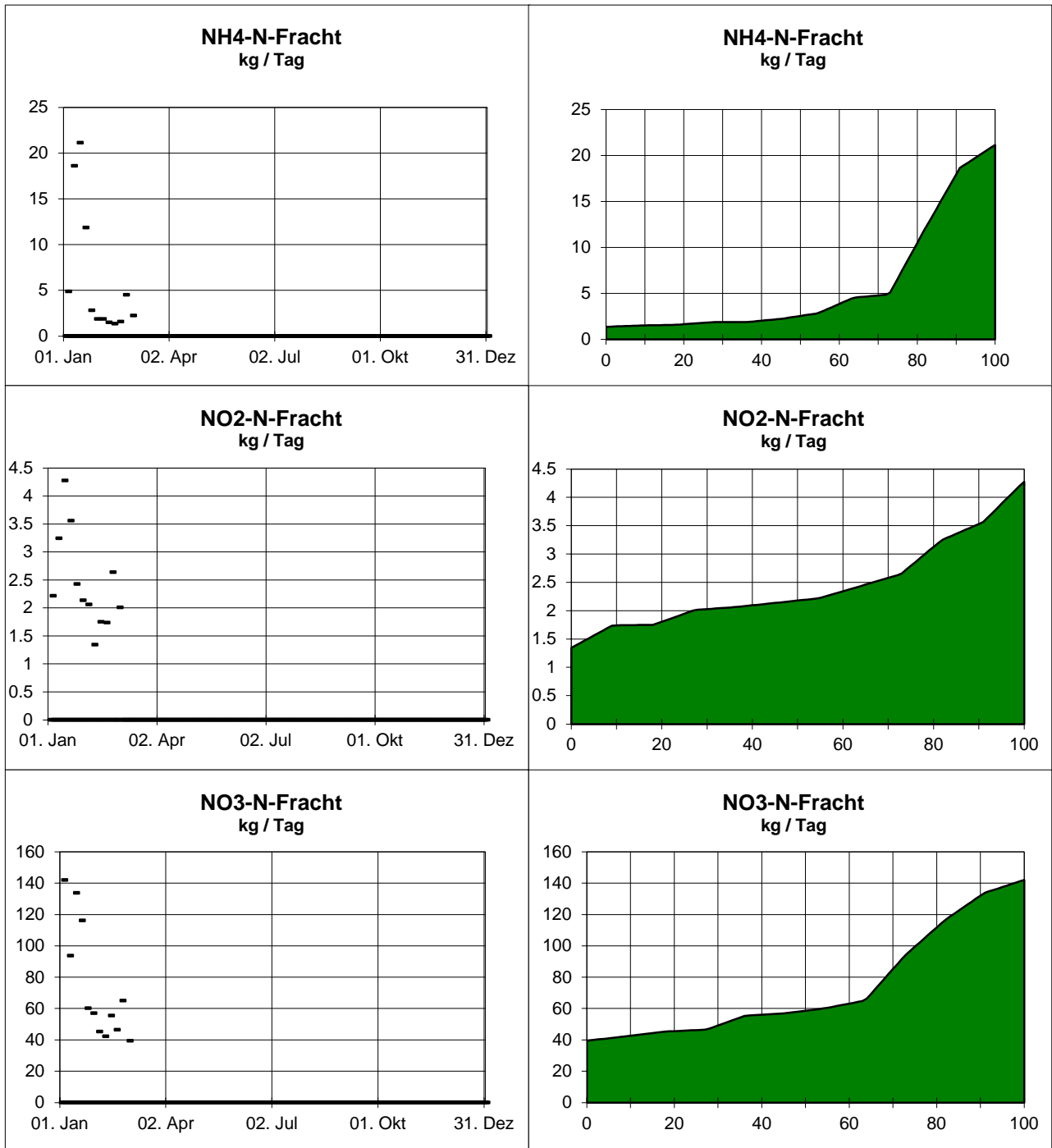
Angaben in mg/l	Mittel- wert	90%- Wert	Grenz- wert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	50.3	64.5	
<b>GUS</b>	12.5	15.0	15
<b>NH4-N</b>	0.4	0.9	2
<b>NO2-N <sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	5.8	6.9	
<b>P ges</b>	0.64	0.75	0.8

<sup>1)</sup> nach GSchV vom 28. Oktober 1998

<sup>2)</sup> Richtwert





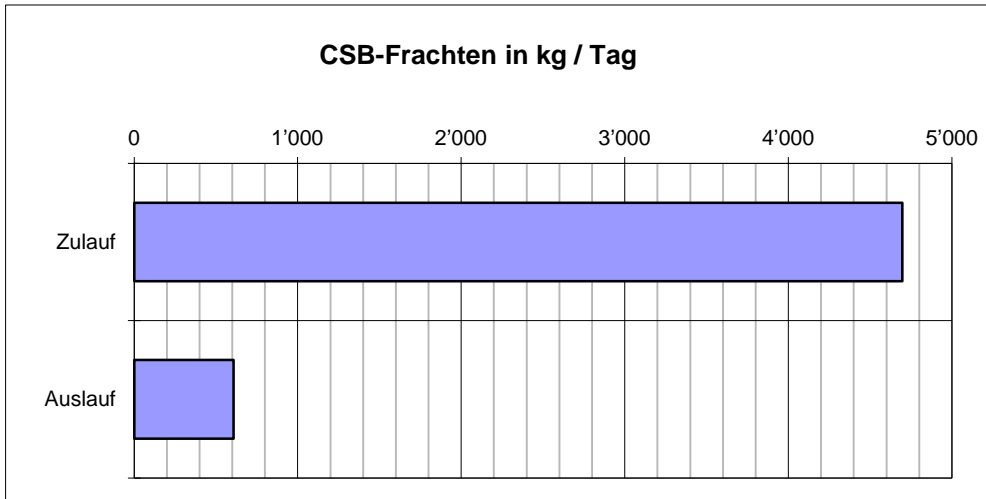


**Auslauffrachten:**

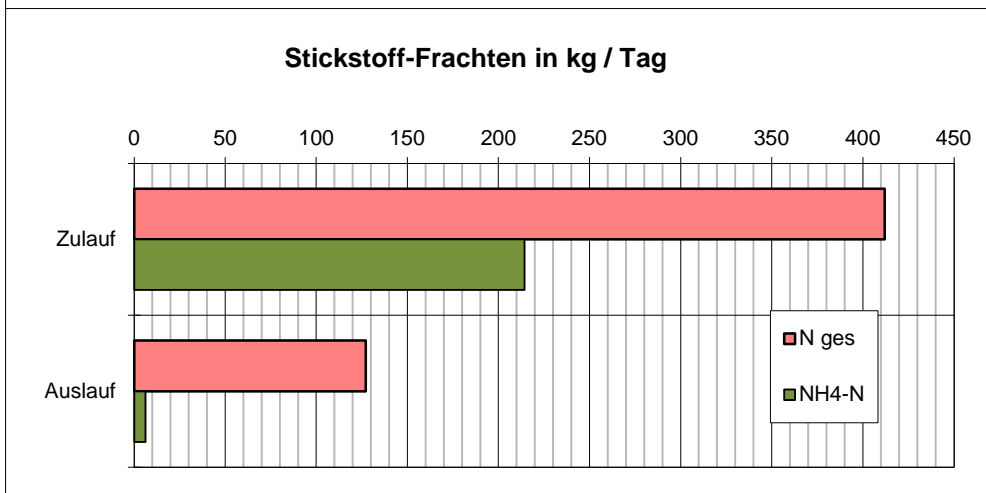
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	607	573	836	606
<b>GUS</b>	164	114	247	152
<b>Nges</b>	127	100	177	122
<b>NH4-N</b>	6.2	2.5	10.5	5.2
<b>NO2-N</b>	2.5	2.2	3.1	2.4
<b>NO3-N</b>	74.8	58.6	111.8	71.7
<b>P ges</b>	8.5	6.2	14.7	8.3

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'696	607	87%	80%
<b>N ges</b>	412.1	127.2	69%	30%
<b>NH4-N</b>	214.3	6.2	97%	90%
<b>Pges</b>	48.3	8.5	82%	80%

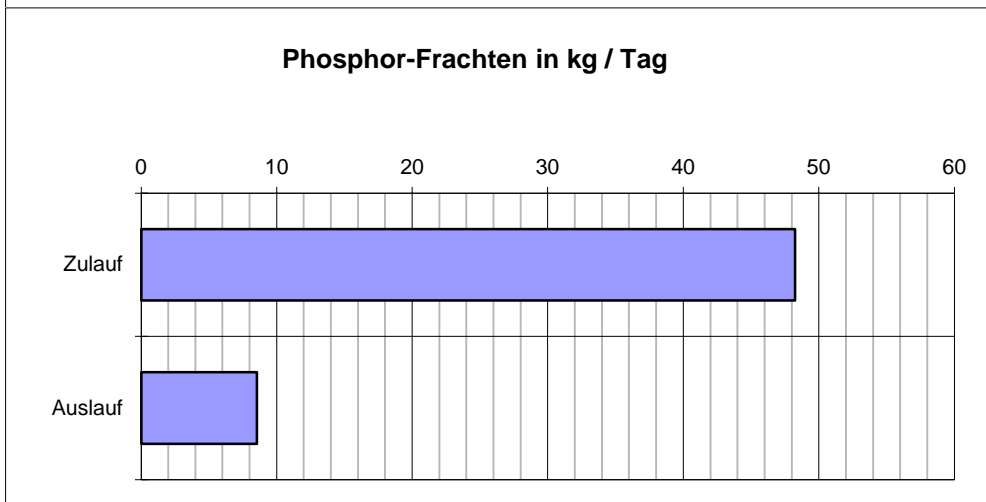


<b>CSB-Abbau</b>	
4'089 kg / Tag	87%
<b>80%</b>	Richtwert

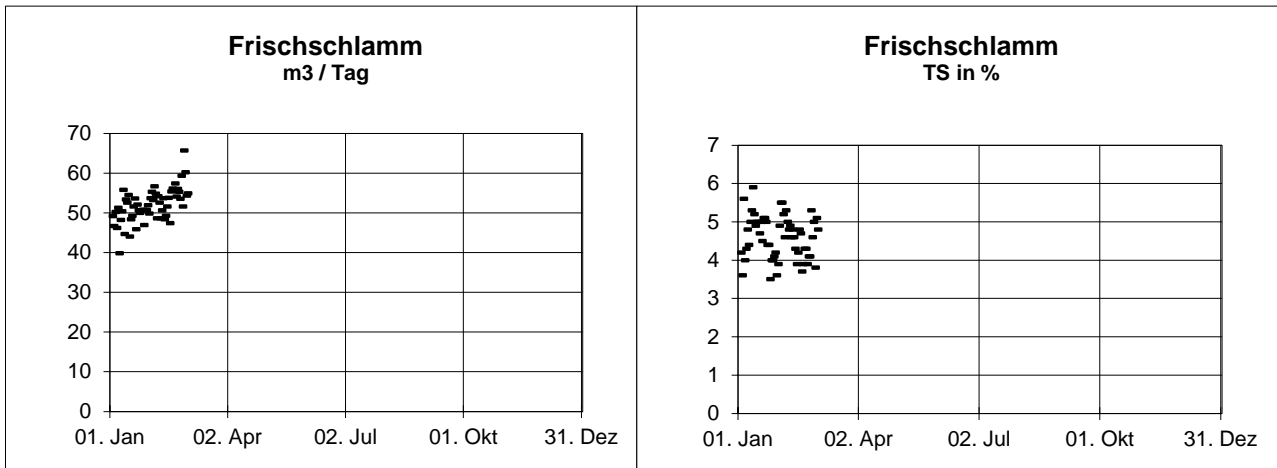


<b>N-Elimination</b>	
285 kg / Tag	69%
<b>30%</b>	

<b>Nitrifikation</b>	
208 kg / Tag	97%
<b>90%</b>	



<b>P-Elimination</b>	
40 kg / Tag	82%
<b>80%</b>	

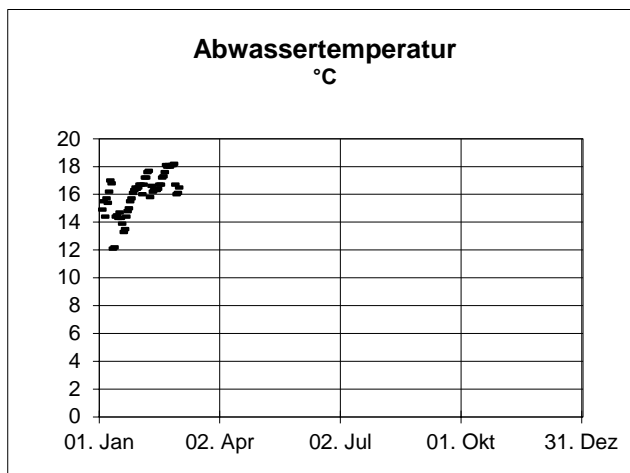


**Frishschlammmanfall: Mittelwerte**

<b>Frishschl. nass</b>	51.9	m3/Tag
<b>TS-Anteil</b>	4.6	%
<b>Frishschl. in TS</b>	2'386	kg/Tag

**Jahresanfall**

<b>Frishschl. in TS</b>	871	t/ Jahr
-------------------------	-----	---------



**Abwassertemperatur:**

<b>Mittelwert</b>	16.1 °C
<b>20%-Wert</b>	14.8 °C
<b>50%-Wert</b>	16.3 °C
<b>80%-Wert</b>	17.2 °C

**Bemerkungen zur Datenauswertung:**